

METHOD FOR PRODUCING POLYESTER FIBER

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Abstract

PROBLEM TO BE SOLVED: To provide a method for efficiently producing a polytrimethylene terephthalate having excellent qualities free from unevenness of performances such as dyeability, strength, etc., controlling occurrence of saddle of winding form and burst in a spinning/drawing process.

SOLUTION: This method for producing a polyester fiber comprises melting and extruding a polytrimethylene terephthalate-based polyester having 0.4-1.5 intrinsic viscosity from a spinneret, passing the extruded yarn through an air sending zone, cooling and solidifying the yarn, taking off the yarn at 500-4,000 m/minute velocity, then taking up the yarn at 4.5-6.0 degree twill angle of winding under 0.044-0.071 cN/dtex winding tension and a drawing process for hot drawing the obtained undrawn yarn and taking up the yarn under 0.071-0.132 cN/dtex winding tension to give the objective drawn yarn.

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